

Title (en)

BONE CONDUCTION SPEAKER AND LISTENING DEVICE USING SAME

Title (de)

KNOCHENLEITENDER LAUTSPRECHER UND HÖRVORRICHTUNG DAMIT

Title (fr)

HAUT-PARLEUR À CONDUCTION OSSEUSE ET DISPOSITIF D'ÉCOUTE L'UTILISANT

Publication

EP 2254345 A4 20120829 (EN)

Application

EP 09721449 A 20090317

Priority

- JP 2009001187 W 20090317
- JP 2008068092 A 20080317

Abstract (en)

[origin: EP2254345A1] To provide a bone conduction speaker that enables a wearer to hear a bone-conducted sound and an air-conducted sound caused by the bone-conducted sound to improve the quality and depth of the sound and allows the wearer to hear external sounds to improve the safety in outdoor use, and a hearing device using the same. When a bone conduction speaker is fitted in an auricle, a part 4, 5 or 6 of a main body 1 of the bone conduction speaker abuts against the entrance and/or the periphery of the entrance of the external auditory meatus to conduct a vibration of the entrance and/or the periphery of the entrance of the external auditory meatus, and a sound pressure caused by the vibration of the entrance and/or the periphery of the entrance of the external auditory meatus conducted by the abutting part is transmitted to the tympanic membrane through the external auditory meatus.

IPC 8 full level

H04R 1/00 (2006.01); **G02C 11/06** (2006.01); **H04R 1/10** (2006.01); **H04R 25/00** (2006.01)

CPC (source: EP US)

G02C 11/06 (2013.01 - EP US); **H04R 25/00** (2013.01 - EP US); **H04R 1/1008** (2013.01 - EP US); **H04R 2460/13** (2013.01 - EP US)

Citation (search report)

- [XY] WO 2008014498 A2 20080131 - COCHLEAR AMERICAS [US], et al
- [XY] JP 2007158924 A 20070621 - COSMO GEAR KK
- [Y] JP 2001320790 A 20011116 - TEMCO JAPAN
- See references of WO 2009116272A1

Cited by

EP3767926A3; EP3010248A4; EP3522568A1; US11601538B2; US10721572B2; US11526033B2; US9020168B2; WO2013030437A1; EP2661054B1

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DOCDB simple family (application)

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